

# Work Order ID 57459

April 7, 2010 10:02:13 AM

Page 1

Item ID: D412-783-011

Reference:

Revision ID:

Item Name: Gross Weight Towing

Start Date: 4/07/10 Start Qty: 4.00

Cust Item ID:

Required Date: 4/09/10 Req'd Qty: 4.00

Customer ID:

Customer Name:

Approvals: Process Plan:  Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

| Sequence ID  | Work Center ID | Operation Description | Hours        |     |             |           |           |            |            |               |             |
|--------------|----------------|-----------------------|--------------|-----|-------------|-----------|-----------|------------|------------|---------------|-------------|
|              |                |                       | Set Up       | Run | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
| Draw Nbr     |                |                       | Revision Nbr |     |             |           |           |            |            |               |             |
| D3943        |                | C                     |              |     |             |           |           |            |            |               |             |
| IIN-D412-783 |                | A                     |              |     |             |           |           |            |            |               |             |

100 DC Document Control 0.00 0.00

Memo Photocopy bluefile & type labels per PPPD412-783-011 CHG 002  
S104109

*On BG 10/04/07*

110 Packaging Pick Kit 0.00 0.00

Memo

*10/04/07 (6)*

120 QC QC4- 100% Inspect kits for completeness 0.00 0.00

*S104109*

*(6)*

130 Packaging 0.00 0.00

Memo

Identify and pack for shipping as per PPP D412-783-011

Location: *B*  
PPP Rev: *B*

*Picky/s (6)*

# Work Order ID 57459

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Item ID: D412-783-011

Reference:

Revision ID:

Item Name: Gross Weight Towing

Start Date: 4/07/10 Start Qty: 4.00

Cust Item ID:

Required Date: 4/09/10 Req'd Qty: 4.00

Customer ID:

Customer Name:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

## Hours

| Sequence ID | Work Center ID | Operation Description                       | Set Up | Run  | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|-------------|----------------|---|--------|------|-------------|-----------|-----------|------------|------------|---------------|-------------|
| 140         | QC             | QC21- Final Inspection - Work Order Release | 0.00   | 0.00 |             |           |           |            |            |               | 10/04/12 JG |

Quality Control

Memo

PL 10-4-12  
(6)

# Picklist Print

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Work Order ID: 57459

Parent Item: D412-783-011

Start Date: 4/07/10

Required Date: 4/09/10

Parent Item Name: Gross Weight Towing

Start Qty: 4.00 *6*

Required Qty: 4.00

Comments: IPP Rev:A New Issue 09-06-02 JLM Verified By:EC IPP Rev:B @ chg 002 DD  
10.02.22 Verified By:EC

| Component Item ID/<br>Item Name                       | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Remaining<br>Qty To Pick | Qty<br>Issued | Date<br>Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| D3943-041 <i>TP</i><br>Ground Handling Crank Assembly |                        | Manufactured  | No          |                     |                  | 110             | Each               | 0.0000         | 4.0000                   | <i>B55706</i> |                |        |
| D3951-041 <i>TP</i><br>Equipment Bag Assembly         |                        | Manufactured  | No          |                     |                  | 110             | Each               | 7.0000         | 4.0000                   | <i>6</i>      |                |        |

## Warehouse

### Location

#### Main Warehouse

|       |   |
|-------|---|
| ST453 | 7 |
| 55127 | 1 |
| 55714 | 6 |

## Warehouse

### Location

#### Main Warehouse

|       |    |
|-------|----|
| ST102 | 21 |
| 52746 | 2  |
| 55685 | 19 |

## Warehouse

### Location

#### Main Warehouse

|       |    |
|-------|----|
| ST102 | 23 |
| 52103 | 2  |
| 55126 | 1  |
| 55686 | 1  |
| 55713 | 19 |

*B55706*

*55127*  
*55714*

*52746* *10P*  
*55685* *10P*

*52103* *2P*  
*55126* *1P*  
*55686* *1P*  
*55713* *8P*

D3954-1 *TP*  
GWT Pin

|              |    |     |      |         |        |
|--------------|----|-----|------|---------|--------|
| Manufactured | No | 110 | Each | 21.0000 | 8.0000 |
|--------------|----|-----|------|---------|--------|

*12*

D3954-3 *TP*  
GWT Knob

|              |    |     |      |         |        |
|--------------|----|-----|------|---------|--------|
| Manufactured | No | 110 | Each | 23.0000 | 8.0000 |
|--------------|----|-----|------|---------|--------|

*12*

*PC14417* *6*

## 4.0 CALIBRATION

### 4.1 Calibration of the D3943-041 Tow Crank Assembly

4.1.1 The chain ratchet handle on the D3943-041 Tow Crank Assembly must be calibrated annually to ensure the handle indicates "clicks" when a 3500 lbs – 4000 lbs load has been achieved. To calibrate loosen setscrew that locks the threaded stainless steel ball plunger (Refer to figure 2 for details). Place a load cell inline and ratchet until the 3500 lbs – 4000 lbs has been reached. If the handle clicks before the 3500lbs load then turn plunger clockwise 1/8 turn, remove load and retry. If handle does not click between the 3500lbs and 4000 lbs load, turn plunger 1/8 turn counterclockwise, remove load and retry. Once the handle has been properly set retighten setscrew and test once more.

4.1.2 The Tow Crank Assembly may be returned to DART for calibration, at the operator's expense.

**REFERENCE ONLY**

## 5.0 PARTS LIST

| QTY<br>-011 | PART NUMBER  | DESCRIPTION             |
|-------------|--------------|-------------------------|
| X           | D412-783-011 | GROSS WEIGHT TOWING KIT |
| 1           | D3943-041    | TOW CRANK ASSEMBLY      |
| 1           | D3951-041    | EQUIPMENT BAG           |
| 2           | D3954-1      | GWT PIN                 |
| 1/2         | D3954-3      | GWT KNOB                |

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

NOTE: Date & initial all entries